| Data Category  Ily Operations and Activities | Data Level 1  Date Location Vessel Operating Status Personnel OnBoard Plan of the Day | Data Level 2                                       |
|--|---|--|
| ny Operations and Activities                 | Location<br>Vessel<br>Operating Status<br>Personnel OnBoard                           |  |
|  | Vessel<br>Operating Status<br>Personnel OnBoard                                       |  |
|  | Operating Status Personnel OnBoard  |  |
|  | Personnel OnBoard   |  |
|  |   |  |
|  | rian of the Day   | DBMS   |
|  | Science Discussion  | DBMS   |
|  | Operations/Safety Discussion  | ,  |
|  | Incident/Accident Discussions   |  |
|  | Sub/ROV Dive Information  |  |
|  |   | Mission ID   |
|  |   | Dive #   |
|  |   | SubID<br>Dive Target ID                            |
|  |   | Data Manager                                       |
|  |   | Data Entry   |
|  |   | Pilot1   |
|  |   | Pilot2   |
|  |   | Observer1 DBMS                                     |
|  |   | Observer2  |
|  |   | Launch Latitude<br>Launch Longitude                |
|  |   | Time Left Surface                                  |
|  |   | Time on Bottom                                     |
|  |   | Time Leave Bottom                                  |
|  |   | Time Return Surface                                |
|  |   | Start Depth  |
|  |   | Stop Depth Track f                                 |
|  |   | Max Depth Air Temp                                 |
|  |   | % Cloud Cover                                      |
|  |   | Wind Direction                                     |
|  |   | Wind Speed   |
|  |   | Sea Height SCS, DBMS                               |
|  |   | Sea Directions                                     |
|  |   | Surface Current                                    |
|  | Cub Cyptom Dorformana   | Surface Temp                                       |
|  | Sub System Performance  | Comms Rating                                       |
|  |   | Comms Rating Comms Rating Reason                   |
|  |   | Tracking System Rating                             |
|  |   | Tracking System Rating Reason                      |
|  |   | Ship Systems Rating                                |
|  |   | Ship Systems Rating Reason  DBMS                   |
|  |   | Camera Systems Rating Camera Systems Rating Reason |
|  |   | Sub Systems Rating                                 |
|  |   | Sub Systems Rating Reason                          |
|  |   | Aborted (Y/N)                                      |
|  | Amaillam (Oz  | Reason Aborted                                     |
|  | Ancillary Operations  | Type of Operation                                  |
|  |   | Time Start   |
|  |   | Time End   |
|  |   | Max Depth  |
|  |   | # Samples Collected DBMS                           |
|  |   | Personnel Involved                                 |
|  |   | Objective<br>Comments                              |

| Data Category | Data Level 1                       | Data Level 2  |
|---------------|------------------------------------|---|
|               | Sample Information                 |   |
|               |                                    | Sample ID Time Sampled Related Dive # Operation Type Sample Description Sample Type Depth Taken Location Sampled  |
|               |                                    | Sample Handler  |
|               | Transit Information                | Sample Destination/Related Project and Contact  |
|               | Transit Information                | Date Start  |
|               |                                    | Time Start Estimated Date End Estimated Time End Actual Date End Actual Time End Point of Origin Point of Destination                                       |
|               | Shuttle Information                | Purpose of Transit Ship's Log   |
|               | Education and Outreach Information | Vessel Id Time Left Origin Time Arrive Destination Point of Origin Point of Destination Purpose of Shuttle # Personnel Involved Names of Personnel Involved |
|               |                                    | Education/Outreach discussion Event Type Event Name Event Description Event Location # People involved Event Lead Event Start Date Event End Date           |
|               | Media Information                  | <u></u>   |
|               |                                    | News Organization Date of Visit Organization Type Number of Visitors Contact Purpose of Visit Headline Name Story URL Story Date  DBMS, Ship's Log          |

| <u>Data Category</u> | <u>Data Level 1</u>        | Data Level 2                                      |
|----------------------|----------------------------|---|
| Dive Information     | General Dive Overview      |   |
|                      | General Dive Overview      | Mission ID  |
|                      |                            | Dive #  |
|                      |                            | SubID<br>Dive Target ID                           |
|                      |                            | Data Manager                                      |
|                      |                            | Data Entry  |
|                      |                            | Pilot1<br>Pilot2                                  |
|                      |                            | Observer1   |
|                      |                            | Observer2   |
|                      |                            | Launch Latitude Dive Log, Ship's Log              |
|                      |                            | Launch Longitude                                  |
|                      |                            | Time on Bottom                                    |
|                      |                            | Time Leave Bottom                                 |
|                      |                            | Time Return Surface<br>Start Depth                |
|                      |                            | Stop Depth  |
|                      |                            | Max Depth   |
|                      | Dive Objectives            | Description of Dive Track                         |
|                      | Dive Objectives            | Objective   |
|                      |                            | Objective Priority Dive Log                       |
|                      |                            | Objective Comments                                |
|                      | Data File Log              | Filename  |
|                      |                            | File Type (Track, CTD, WPT, etc)                  |
|                      |                            | Date Created                                      |
|                      |                            | Source Contact Track f, Pl                        |
|                      |                            | File Size File Extension (.dat, .txt, .zip, etc.) |
|                      |                            | Related Dive #                                    |
|                      | Weather and Sea Conditions | Air Temp  |
|                      |                            | % Cloud Cover                                     |
|                      |                            | Wind Direction                                    |
|                      |                            | Wind Speed SCS, DBMS                              |
|                      |                            | Sea Height Sea Directions                         |
|                      |                            | Comments  |
|                      | Subsurface Sea Conditions  | Surface Current                                   |
|                      |                            | Surface Current<br>Surface Temp                   |
|                      |                            | Thermocline Depth                                 |
|                      |                            | Bottom Current Bottom Temp                        |
|                      |                            | Visibility Dive Log, PI                           |
|                      |                            | Viz variation with Depth                          |
|                      |                            | Nepheloid Thickness                               |
|                      |                            | Pycnocline Depth<br>Comments                      |
|                      | Transect Information       |   |
|                      |                            | Transect Number Transect Start Time               |
|                      |                            | Transect Start Time Transect Stop Time            |
|                      |                            | Tape Used   |
|                      | Dive Track Ratings         | Dive Log  |
|                      |                            | Uniqueness<br>Health                              |
|                      |                            | Disturbance                                       |
|                      |                            | Biodiversity                                      |
|                      |                            | Highest Observed Relief                           |

| Data Category     | Data Level 1  | Data Level 2  |
|-------------------|---|---|
|                   | Geomorphology and Sediments   |   |
|                   | Living Marine Decourage   | Features Feature percent Cover Dominant Features Sediment Types Sediment percent cover Dominant Sediment Living Habitat Structure Type LHS percent cover Dominant LHS Comments  |
|                   | Living Marine Resources   | Pelagic Fish Relative Abundance Bottom Fish Relative Abundance Crustacean Relative Abundance Mollusk Relative Abundance Echinoderm Relative Abundance Other LMR Relative Abundance Other Benthics Observed Unique or Rare Species Observed Comments |
|                   | Fish Identification   | Species Relative Abundance Unique Species Observed Comments   |
|                   | Human Activities Human Impacts  | Activity Observed Comments  Dive Log  |
| CTD Data          | General Pilot Comments  | Impacts Observed Comments   |
|                   | Date Time Depth C T   |   |
| Digital Videos    | Other Parameters  |   |
|                   | Dive ID<br>Location<br>Date<br>Tape #   |   |
| Still Photos      | Dive ID Date Time   |   |
| Video Annotations | Depth   |   |
|                   | Mission ID Dive ID Location Sub Observers or Pilots Personnel Annotating Tape ID Camera ID Time In Time Out Real Time Fish Observations | DBMS  |
|                   | Habitat Observations Human Impacts Observations Percent Cover Observations Other Comments Still or Video Highlight Recommended          | 1   |